

M 5.4, 133 km W of San Jose Village, Northern Mariana Islands

Origin Time: 2023-08-19 23:10:59 UTC (Sun 09:10:59 local)
Location: 14.8950° N 144.3776° E Depth: 10.0 km

PAGER Version 4

Created: 2 hours, 4 minutes after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Shaking Intensity	Estimated Fatalities
1-10	65%
10-100	30%
100-100,000	4%

Estimated Economic Losses

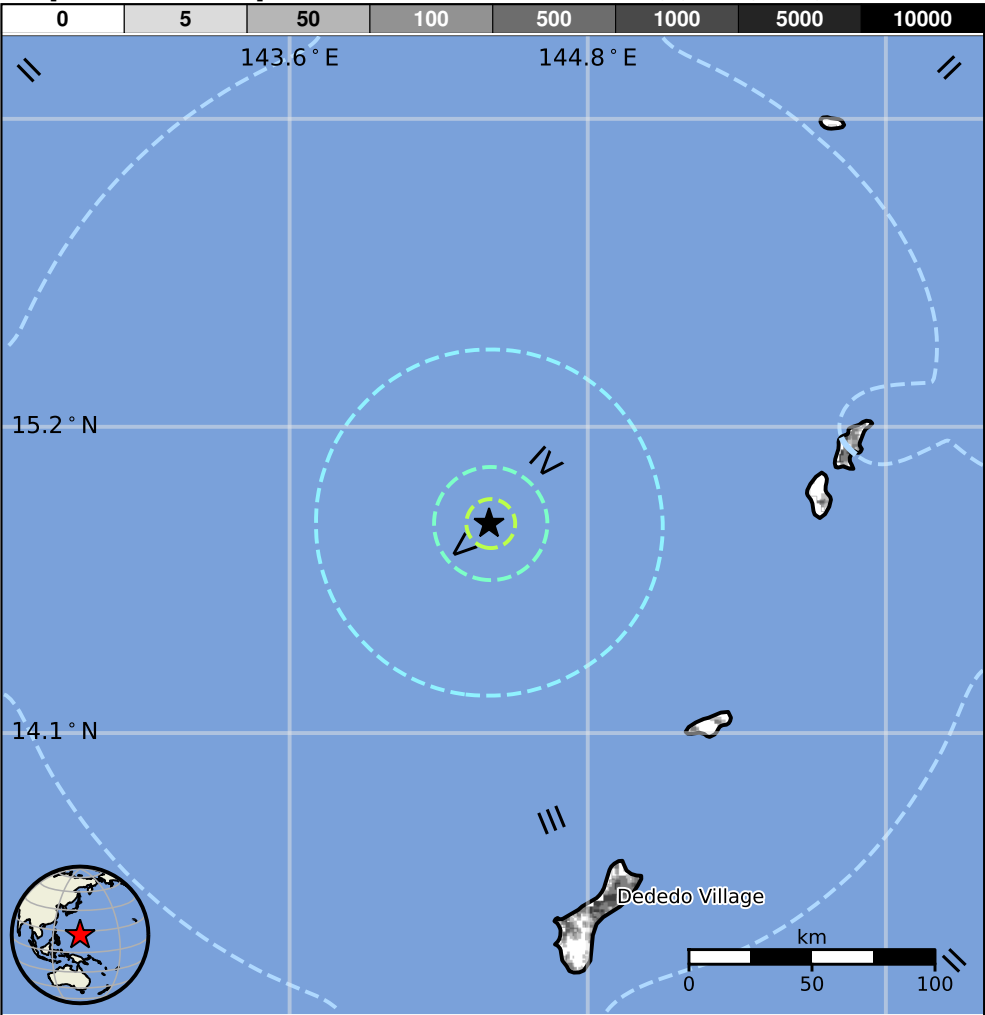
Shaking Intensity	Estimated Economic Losses (USD Millions)
1-10	65%
10-100	30%
100-100,000	4%

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	232k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2001-10-12	249	7.0	VII(48k)	0
2002-04-26	202	7.0	VIII(2k)	0
1993-08-08	217	7.7	IX(3k)	0

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

MMI	City	Population
III	San Jose Village	15k
III	Chalan Pago-Ordot Village	7k
III	Barrigada Village	9k
III	Sinajana Village	3k
III	Hagatna Village	1k
III	Guam Government House	<1k
III	Mangilao Village	15k
III	Tamuning-Tumon-Harmon Village	20k
III	Dededo Village	45k
III	Yigo Village	21k
II	Saipan	48k